

ABSTRACT OF THE DISCLOSURE

A high-frequency power amplification electronic part is disclosed which comprises a power amplifier circuit and a bias control circuit, the power amplifier circuit having a plurality of amplifier stages for amplifying an input high-frequency signal, the bias control circuit acting to bias the power amplifier circuit. The power amplifier circuit controls output power in accordance with input power that is varied while a gain of the power amplifier circuit is being fixed by either a bias current or a bias voltage supplied from the bias control circuit. The bias control circuit supplies at least two diode characteristic elements with a predetermined current each in order to generate at least two voltages demonstrating different temperature characteristics, the bias control circuit further using the generated voltages as a basis for generating either a plurality of bias currents or a plurality of bias voltages having a desired temperature-dependent rate of change each, the generated bias currents or bias voltages being fed to each of the plural amplifier stages constituting the power amplifier circuit.